

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. 2557-000156/US

First Inventor Sang-Joon HWANG

Title SEMICONDUCTOR MEMORY HAVING SENSE AMPLIFIER ARCHITECTURE

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)

2. Applicant claims small entity status.
See 37 CFR 1.27.

3. Specification [Total Pages 25]
(preferred arrangement set forth below)
- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4. Drawing(s) (35 U.S.C. 113) [Total Sheets 10]

5. Oath or Declaration [Total Pages 3]

a. Newly executed (original or copy)
b. Copy from a prior application (37 CFR 1.63 (d))
(for a continuation/divisional with Box 18 completed)

i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6. Application Data Sheet. See 37 CFR 1.76

ADDRESS TO:

Commissioner for Patents
Box Patent Application
P.O. Box 1450
Alexandria, VA 22313-1450

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)

a. Computer Readable Form (CRF)
b. Specification Sequence Listing on:
i. CD-ROM or CD-R (2 copies); or
ii. paper
c. Statements verifying identity of above copies

ACCOMPANYING APPLICATIONS PARTS

9. Assignment Papers (cover sheet & document(s))

10. 37 C.F.R. §3.73(b) Statement Power of (when there is an assignee) Attorney

11. English Translation Document (if applicable)

12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations

13. Preliminary Amendment

14. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)

15. Certified Copy of Priority Document(s) (if foreign priority is claimed)

16. Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.

17. Other: _____

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-part (CIP)

of prior application No: _____ / _____

Prior application information: Examiner _____ Group / Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label

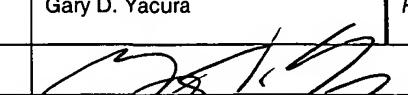
30593

30593

(Insert Customer No. or Attach bar code label here)

or Correspondence address below

Name	Harness, Dickey & Pierce, P.L.C.				
Address	P.O. Box 8910				
City	Reston	State	VA	Zip Code	20195
Country	United States of America	Telephone	703-668-8000	Fax	703-668-8200

Name (Print/Type)	Gary D. Yacura		Registration No. (Attorney/Agent)	35,416
Signature			Date	July 14, 2003

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

19587 U.S. PTO
10/611740
07/14/03

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

07/14/03
18334 U.S.

FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 952)

Complete if Known

Application Number	New Application
Filing Date	July 14, 2003
First Named Inventor	Sang-Joon HWANG
Examiner Name	Unassigned
Group / Art Unit	Unassigned

Attorney Docket No. 2557-000156/US

METHOD OF PAYMENT (check all that apply)

 Check Credit card Money Other None
Order
 Deposit Account:

Deposit Account Number	08-0750
Deposit Account Name	Harness, Dickey & Pierce, P.L.C.

The Commissioner is authorized to: (check all that apply)

 Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) during the pendency of this application
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code	Fee Code	Fee Description	
1001 750	2001 375	Utility filing fee	750
1002 330	2002 165	Design filing fee	
1003 520	2003 260	Plant filing fee	
1004 750	2004 375	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1)

(\$ 750)

2. EXTRA CLAIM FEES

Total Claims	29	-20 **	=	9	X	18	=	162	Extra Claims	Fee from below	Fee Paid
Independent Claims	2	-3 **	=	0	X	84	=	0			
Multiple Dependent					X		=	0			

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
1202 18	2202 9			Claims in excess of 20
1201 84	2201 42			Independent claims in excess of 3
1203 280	2203 140			Multiple dependent claim, if not paid
1204 84	2204 42			** Reissue independent claims over original patent
1205 18	2205 9			** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$ 162)

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051 130	2051 65	2051	65	2052	25	Surcharge - late filing fee or oath	
1052 50		2052	25			Surcharge - late provisional filing fee or cover sheet.	
1053 130	1053 130	1053	130			Non-English specification	
1812 2,520	1812 2,520	1812	2,520			For filing a request for reexamination	
1804 920*	1804 920*	1804	920*			Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	1805	1,840*			Requesting publication of SIR after Examiner action	
1251 110	2251 55	2251	55			Extension for reply within first month	
1252 410	2252 205	2252	205			Extension for reply within second month	
1253 930	2253 465	2253	465			Extension for reply within third month	
1254 1,450	2254 725	2254	725			Extension for reply within fourth month	
1255 1,970	2255 985	2255	985			Extension for reply within fifth month	
1401 320	2401 160	2401	160			Notice of Appeal	
1402 320	2402 160	2402	160			Filing a brief in support of an appeal	
1403 280	2403 140	2403	140			Request for oral hearing	
1451 1,510	1451 1,510	1451	1,510			Petition to institute a public use proceeding	
1452 110	2452 55	2452	55			Petition to revive – unavoidable	
1453 1,300	2453 650	2453	650			Petition to revive – unintentional	
1501 1,300	2501 650	2501	650			Utility issue fee (or reissue)	
1502 470	2502 235	2502	235			Design issue fee	
1503 630	2503 315	2503	315			Plant issue fee	
1460 130	1460 130	1460	130			Petitions to the Commissioner	
1807 50	1807 50	1807	50			Processing fee under 37 CFR 1.17 (q)	
1806 180	1806 180	1806	180			Submission of Information Disclosure Stmt	
8021 40	8021 40	8021	40			Recording each patent assignment per property (times number of properties)	40
1809 750	2809 375	2809	375			Filing a submission after final rejection (37 CFR § 1.129(a))	
1810 750	2810 375	2810	375			For each additional invention to be examined (37 CFR § 1.129(b))	
1801 750	2801 375	2801	375			Request for Continued Examination (RCE)	
1802 900	1802 900	1802	900			Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$ 40)

**or number previously paid, if greater; For Reissues, see above

SUBMITTED BY Complete (if applicable)

Name (Print/Type)	Gary D. Yacura	Registration No. Attorney/Agent)	35,416	Telephone	703-668-8000
Signature				Date	July 14, 2003

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.